

Soil Ingestion Factor (EPA, December 1991)

$$IFSadj = EDc * IRSc / BWc + (EDtot - EDc) * IRSa / BWa$$

Parameters	Values
IFSadj (Age-adjusted soil ingestion factor - mg*yr/kg*day; EPAIX, October 2002)	114
EDc (Child exposure duration - yr; EPA, December 1991)	6
IRSc (Child soil ingestion rate - mg/day; EPA, August 1997)	200
BWc (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
IRSa (Adult soil ingestion rate - mg/day; EPA, August 1997)	100
BWa (Adult body weight - kg; EPA, August 1997)	70

Air Inhalation Factor

$$IFAadj = EDc * IRAc / BWc + (EDtot - EDc) * IRAa / BWa$$

Parameters	Values
IFAadj (Age-adjusted inhalation factor - m^3/yr/kg*day; EPAIX, October 2002)	12
EDc (Child exposure duration - yr; EPA, December 1991)	6
IRAc (Child inhalation rate - m^3/day; EPA, August 1997)	12
BWc (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
IRRa (Adult inhalation rate - m^3/day; EPA, August 1997)	20
BWa (Adult body weight - kg; EPA, August 1997)	70

Dermal Factor

$$DFadj = EDc * DFc / BWc + (EDtot - EDc) * DFA / BWa$$

Parameters	Values
DFadj (Age-adjusted dermal factor - mg*yr/kg*day; EPAIX, October 2002)	80
EDc (Child exposure duration - yr; EPA, December 1991)	6
DFc (Child dermal factor - mg/day; EPA, August 1997)	97.17
BWc (Child body weight - kg; EPA, August 1997)	15
EDtot (Total exposure duration - yr; EPA, December 1991)	30
DFA (Adult dermal factor - mg/day; EPA, August 1997)	120.9
BWa (Adult body weight - kg; EPA, August 1997)	70

Dermal Factor Adult (Groundskeeper 5 Adherence)

$$DFA = SAah * AFah + SAaa * AFaa + SAaf * AFaf$$

Parameters	Values
DFA (Adult dermal factor - mg/day; EPA, August 1997)	121
SAah (Adult hand surface area - cm^2; EPA, August 1997)	1170
AFah (Adult hand adherence factor - mg/cm^2*day; EPA, August 1997)	0.032
SAaa (Adult arm surface area - cm^2; EPA, August 1997)	3540
AFaa (Adult arm adherence factor - mg/cm^2*day; EPA, August 1997)	0.022
SAaf (Adult face surface area - cm^2; EPA, August 1997)	1430
AFaf (Adult face adherence factor - mg/cm^2*day; EPA, August 1997)	0.0039

Child Surface Areas

$$SAC = SAct / SAat * SAa$$

Parameters	Values
SACh (Child hand surface area - cm^2; EPA, August 1997)	388
SAct (Child total surface area - cm^2; EPA, August 1997)	7620
SAat (Adult total surface area - cm^2; EPA, August 1997)	23000
SAah (Adult hand surface area - cm^2; EPA, August 1997)	1170
SAca (Child arm surface area - cm^2; EPA, August 1997)	1173
SAaa (Adult arm surface area - cm^2; EPA, August 1997)	3540
SAcf (Child face surface area - cm^2; EPA, August 1997)	474
SAaf (Adult face surface area - cm^2; EPA, August 1997)	1430

Dermal Factor Child (Daycare Kid 1b Adherence)

$$DFc = SACh * AFch + SAca * AFca + SAcf * AFcf$$

Parameters	Values
DFc (Child dermal factor - mg/day; EPA, August 1997)	97
SACh (Child hand surface area - cm^2; EPA, August 1997)	388
AFch (Child hand adherence factor - mg/cm^2*day; EPA, August 1997)	0.15
SAca (Child arm surface area - cm^2; EPA, August 1997)	1173
AFca (Child arm adherence factor - mg/cm^2*day; EPA, August 1997)	0.031
SAcf (Child face surface area - cm^2; EPA, August 1997)	474
AFcf (Child face adherence factor - mg/cm^2*day; EPA, August 1997)	0.0055